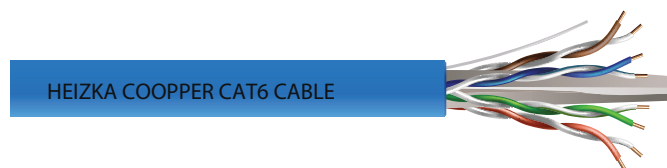
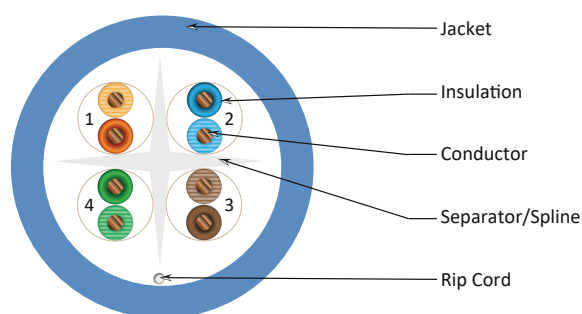


Copper Cabling System

61 SERIES - CAT6 250 to 350 MHz Cable, 24 AWG, UTP



Features:

- 100BASE-T, 1000BASE-T Ethernet applications
- Unshielded Twisted Pair (UTP) Cable
- Power over Ethernet (PoE) / PoE+PoE: IEEE 802.3af and IEEE 802.3at
- Cross filler inside to offer better crosstalk and impedance performance
- 24 AWG Bare Copper Conductors
- Easy-to-See Vivid-Color Conductor Insulation and Cable Jacket
- LSZH flame retardant cables comply with IEC 60332-1-2, IEC 60332-3
- Designed in the USA
- Packaging: 305m/Box

Standard Compliance:

- ISO/IEC 11801
- ANSI/TIA/EIA -568.2-D
- IEC 61156-5
- EN50173-1

Item

Description

HEC61U3PE	CAT6 24AWG, U/UTP, PE, Black, 305m/Box
HEC61U1CM	CAT6 24AWG,U/UTP, CM, Blue, 305m/Box
HEC61U1PC	CAT6 24AWG, U/UTP, PVC, Blue, 305m or 500m/Box
HEC61U5LZ	CAT6 24AWG, U/UTP, LSZH, Orange, 305m/Box

Type			U/UTP CAT6 4x2x24AWG
Construction			Dimensions
Conductor	Structure AWG	AWG	24
	Material	-	Solid Bare Copper
Insulation	Material	-	HDPE
Twist	Direction	-	S
Fillers	Material	-	PE
Jacket	Material	-	LSZH/PVC/PE/CM/CMR
	Diameter	mm	6.0 ± 0.3
Installation Temperature Range			0°C ~ +70°C
Operating Temperature Range			-20°C ~ +70°C

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Mechanical Characteristics:

Conductor elongation		≥15%
Jacket before Aging (LSZH)	Tensile Strength	≥10Mpa
	Elongation	≥125%
Jacket After Aging (LSZH)	Tensile Strength (100°C±2°C,168h)	≥8Mpa
	Elongation (100°C±2°C,168h)	≥100%
Minimum Bend Radius		8x Cable Radius

Electrical Characteristics:

DC Resistance Unbalance (%):	≤2.0%
DC Resistance	≤ 9.38Ω/100m
Insulation Resistance	> 5000MΩ×Km +20°C DC (100-500) V
Dielectric strength	DC 1000V ,1min No Breaking Down
Mutual Capacitance of a Pair	Max 5.6 nF/100m
Impedance (Ω)	1MHz-250MHz 100 Ohms ±15%
NVP	68%

Nominal Transmission Characteristics:

	IL	RL	DOP	SKEW	NEXT	PS NEXT	ACR-F	PS ACR-F
Freq.	dB	dB	ns	ns/100m	dB	dB	dB	dB
in MHz	Max.	Min.	Max.	Max.	Min.	Min.	Min.	Min.
4	3.8	23.0	552	45	66.2	63.2	55.7	52.7
10	6.0	25.0	545	45	60.3	57.3	47.8	44.8
16	7.6	25.0	543	45	57.2	54.2	43.7	40.7
20	8.5	25.0	542	45	55.7	52.7	41.7	38.7
31.25	10.7	23.6	540	45	52.8	49.8	37.9	34.9
62.5	15.4	21.5	538	45	48.3	45.3	31.8	28.8
100	19.8	20.1	537	45	45.3	42.3	27.8	24.8
200	29.0	18.0	536	45	40.7	37.7	21.7	18.7
250	32.0	17.0	535	45	39.3	36.3	19.8	16.8

Note: The above transmission performance for the 100M, 20 ± 2 °C under the conditions tested